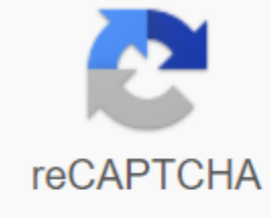




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Dehydration synthesis and hydrolysis practice answer key

1. Summary: Joining two monomers causes the water molecule to be lost. This is an attachment to make a polymer called synthesis of dehydration. SPLITTING apart from two organic molecules in the polymer and adding back parts of the water to make individual monomers again called hydrolysis. 2. Match the correct prefix or suffix or definition of its meaning/word below. DEHYDRATE HYDRO- SYNTHESIS -LYSIS MONOMER POLYMER For separation or disintegration; Release -lysis. To do something synthesis. Many monomers, hooked together, make a polymer. Means losing or removing water; to take away the dehydration of the water. Means water (as when receiving water) -hydro. A building block or one polymer block is a monomer. Learn about each example. Please indicate whether each of the following examples is the synthesis of dehydration or hydrolysis. Reaction #1: Dehydration Synthesis Reaction #2: Hydrolysis Reaction #3: Hydrolysis Our Body digests a piece of steak into individual amino acids. Reaction #4: Dehydration Synthesis Our body binds glucose molecules together to form glycogen, an energy storage molecule in your body. 4. Explain in your own words: How can you tell if the chemical equation represents: Synthesis of dehydration: It transforms from a monomer into a polymer. Hydrolysis: It turns the shape of the polymer into a monomer. 5. Analyze the following charts to answer the following questions: Below is a chemical reaction to form a peptide, or a very small protein. Is this an example of the synthesis or reaction of hydrolysis? It's a synthesis of dehydration. What are the reactions of such a reaction? Both amino acids. What are the products of this reaction? Small protein and water. If we created a protein chain with 9 amino acids, how many water molecules would be produced in the process? There will be eight. During the dehydration fusion reaction, if 42 water molecules were made, how many amino acids were combined together to make the protein? 43. The following is a chemical reaction to the formation of triglycerides. Is this an example of the synthesis or reaction of hydrolysis? Synthesis of dehydration. What are the reactions of such a reaction? Glycerol and 3 chains of fatty acids. What are the products of this reaction? Triglycerides and 3 water molecules. If we broke 10 triglyceride molecules, how many water molecules would we need to complete the reaction? 30. How many water molecules are lost when 32 triglyceride molecules are created? 96. 6. Cellulose is an integral molecule in the formation of the cell wall, a sturdy external structure that surrounds each cell of the plant. It is the most common organic polymer on our planet! Below is a diagram that shows how cellulose is produced in a plant cage. What is a cellulose monomer? Glucose. What is cellulose polymer? Polysaccharide. People are unable to digest cellulose, which is often referred to as fiber in ingredient lists. However, it plays an important role in having a bulking agent in our digestive system; essentially it makes up all the solids in the human stern. What foods would you like to eat to have a fiber-rich diet? I would eat a lot of herb-type food. For example, salads. Some animals, however, such as termites, can digest cellulose by means of bowel protest (a tiny animal) called Trichonympha. There are between 300 and 1,700 glucose molecules in one cellulose molecule. If the average cellulose molecule size is 1000 glucose molecules, on average, how many water molecules should be present at the Trichonympha proteaist successfully digest it into all 1000 glucose molecules? 999. This set includes the words: CHNOPS, Biomolecules, Monomer, polymer, synthesis of dehydration, hydrolysis, nonpolar, polar, hydrophilic, hydrophobic, carbohydrates, glucose, lipids, fatty acids, proteins, amino acids, nucleotides and nucleic acids. Coloring pages have recently become a huge hit with all ovPage 2This 9 page Lesson Plan contains 37 vocabulary words and definitions related to the biochemistry and energy group in biology. Atom, Element, Molecule, Compound, Carbohydrates, Lipid, Saturated Fat, Unsaturated Fat, Protein, Amino Acids, Polypeptide, Nucleon Acid, Nucleotide, Ribosa, Desiribosis, PuPage 340 Revision Card With Answers - Caps (8 Cards/Page) - Overweight, Wound, Chest Pain, Itchy, Treatment, antibiotics, constipation, hay fever, surgery, blister, lose consciousness, dehydration, heal, suffer from insomnia, quit, have high blood pressure, have sPage 47th, 8th, 9th, 10th, 11th, 12th, higher education, HomePageschool 5This 9th page Lesson contains 37 vocabulary of words and definitions related to biochemistry and energy in biology. 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